

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533820

Luminaire Tested: **GALN-SA9B-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42107 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

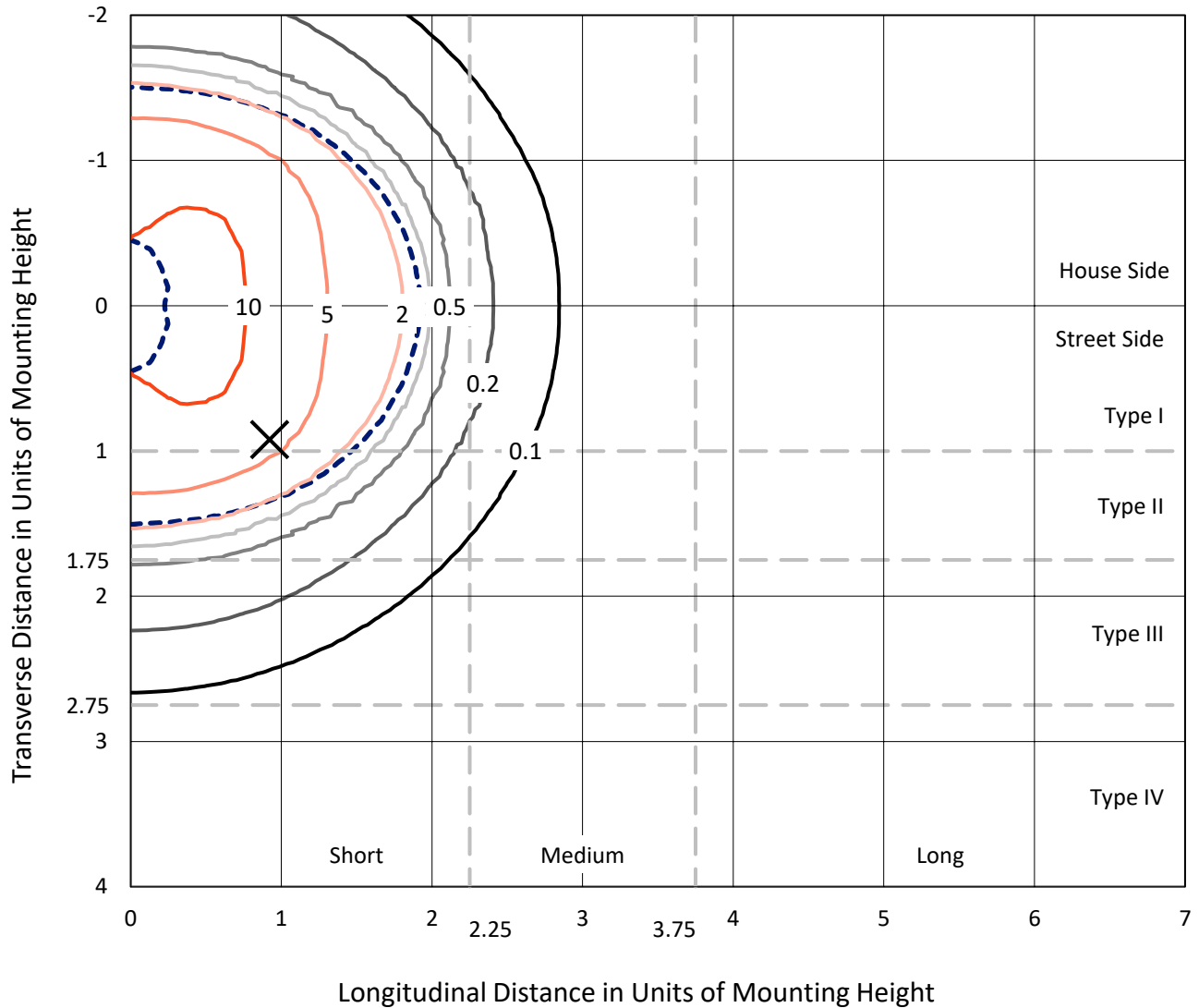
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

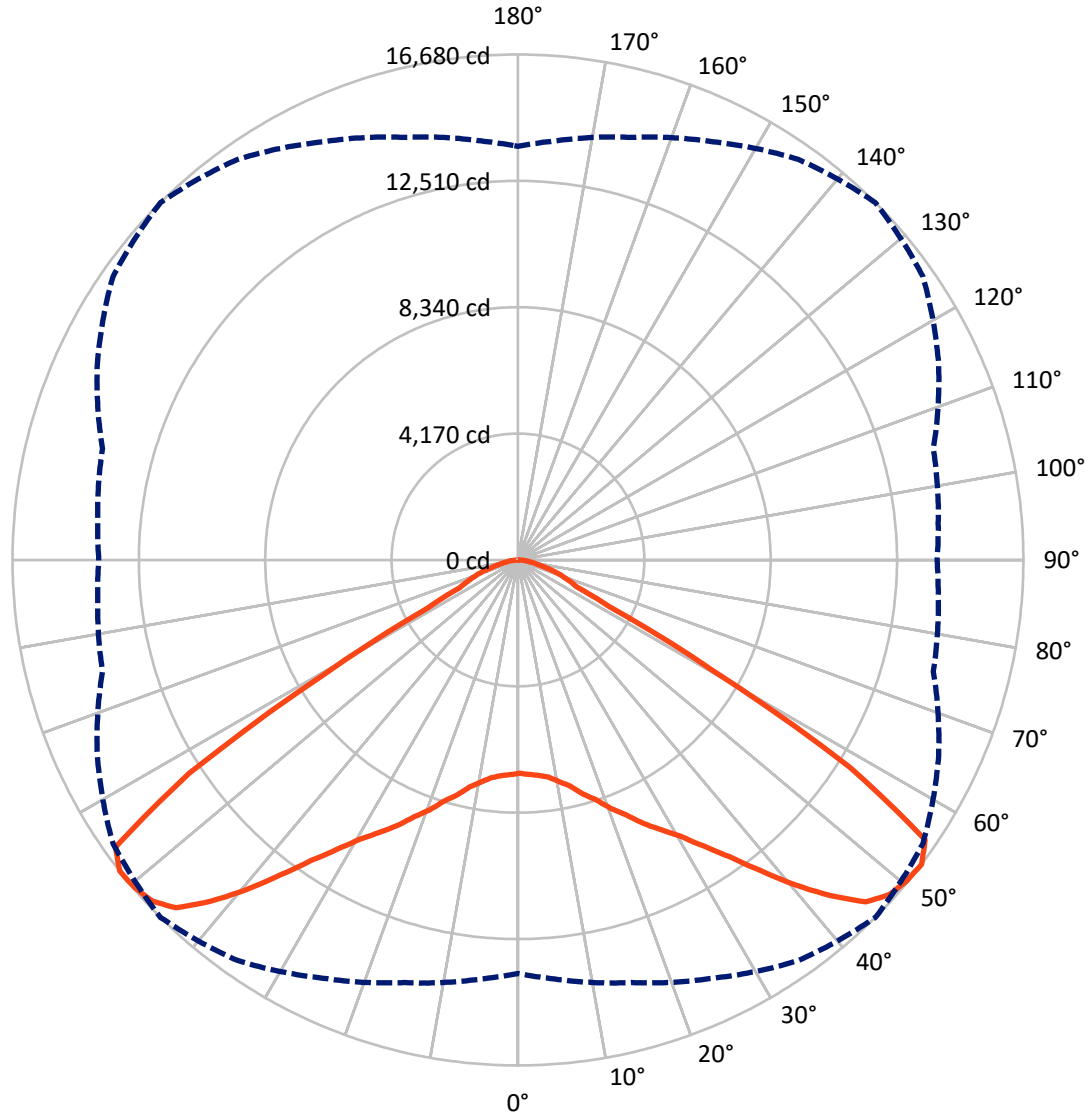
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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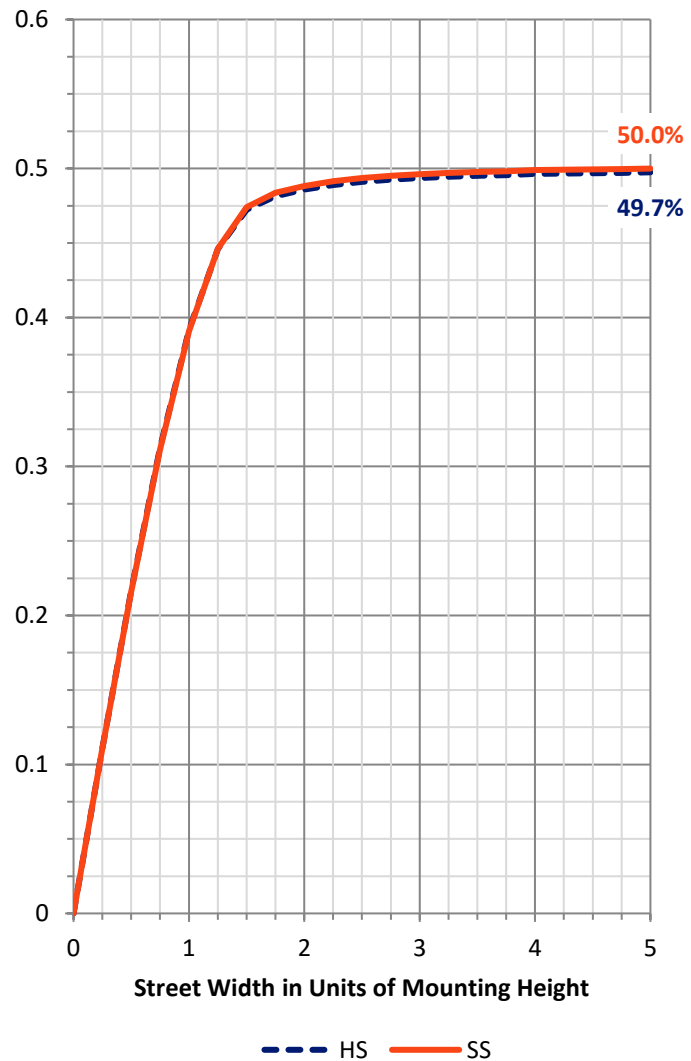
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21053.5	0.0	21053.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21053.5	0.0	21053.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42107.0	0.0	42107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.5	1.6
10°-20°	2272.3	5.4
20°-30°	4326.2	10.3
30°-40°	7428.4	17.6
40°-50°	11417.7	27.1
50°-60°	11594.4	27.5
60°-70°	3231.2	7.7
70°-80°	953.2	2.3
80°-90°	192.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42107.0	100.0
0°-180°	42107.0	100.0



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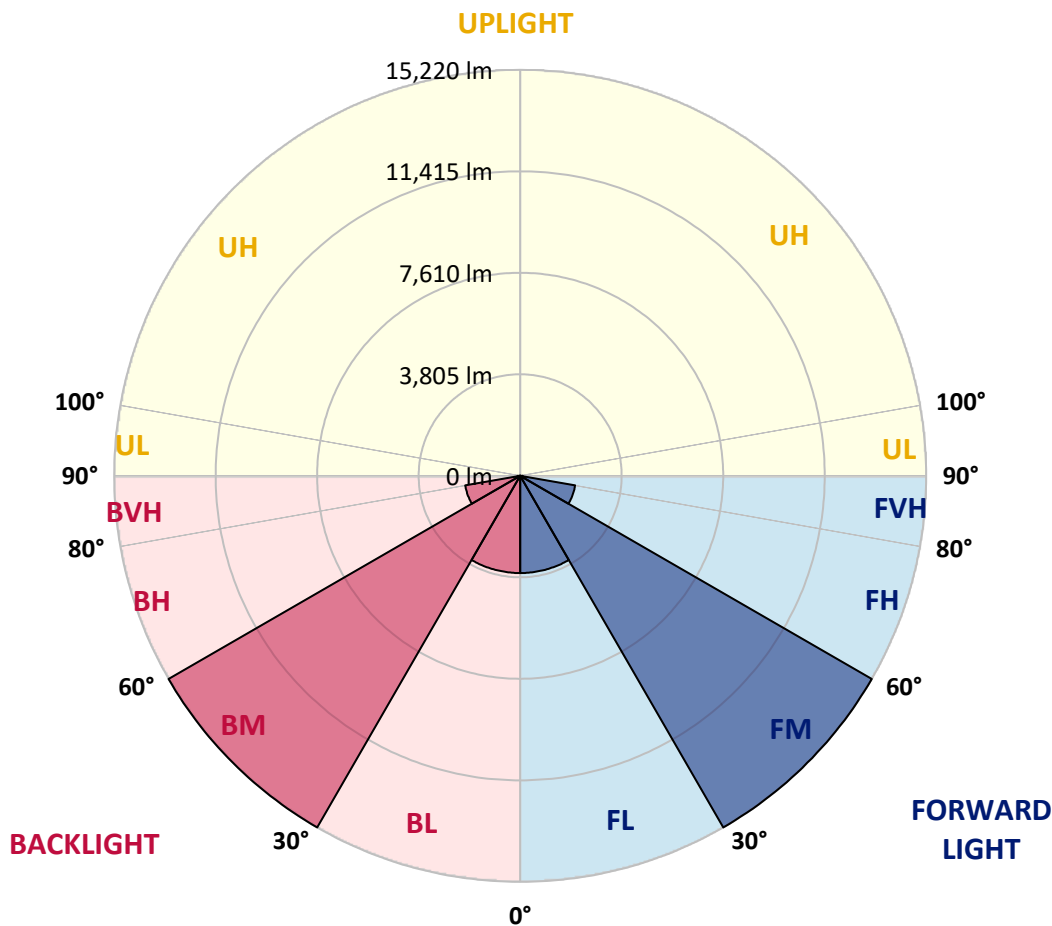
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3645.0	8.7			
FM (30°-60°)	15220.3	36.1			
FH (60°-80°)	2092.2	5.0			G2/5000
FVH (80°-90°)	96.0	0.2			G1/100
BL (0°-30°)	3645.0	8.7	B4/5000		
BM (30°-60°)	15220.3	36.1	B5		
BH (60°-80°)	2092.2	5.0	B3/2500		G2/5000
BVH (80°-90°)	96.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7	7038.7
2.5°	7054.4	6981.3	7007.4	7023.1	7091.0	7085.8	7070.1	7091.0	7111.9	7117.1	7106.7
5°	7049.2	6996.9	7017.8	7033.5	7101.4	7138.0	7127.6	7216.4	7279.1	7263.4	7341.8
7.5°	7007.4	7038.7	7012.6	7091.0	7148.5	7237.3	7331.4	7415.0	7493.4	7582.2	7597.9
10°	7101.4	7101.4	7148.5	7211.2	7362.7	7430.7	7566.5	7686.7	7838.2	7942.8	7900.9
12.5°	7200.7	7216.4	7216.4	7378.4	7503.8	7655.3	7780.8	7942.8	8157.0	8282.4	8345.1
15°	7300.0	7310.5	7362.7	7582.2	7770.3	8010.7	8125.6	8272.0	8392.1	8627.3	8632.5
17.5°	7388.8	7446.3	7603.1	7848.7	8083.8	8313.8	8496.7	8648.2	8752.7	8846.8	8825.9
20°	7723.3	7765.1	7927.1	8172.7	8522.8	8747.5	8810.2	8836.3	8904.2	9092.4	9034.9
22.5°	8047.3	8062.9	8214.5	8590.7	8836.3	9134.2	9202.1	9186.4	9212.5	9259.6	9343.2
25°	8381.7	8407.8	8616.8	8935.6	9280.5	9635.8	9693.3	9573.1	9536.5	9588.8	9594.0
27.5°	8810.2	8815.4	9081.9	9358.9	9750.8	10085.2	10174.0	10080.0	9907.5	9949.3	10017.3
30°	9353.6	9317.1	9583.6	9980.7	10393.5	10581.6	10733.2	10686.1	10498.0	10461.4	10404.0
32.5°	9980.7	9991.1	10231.5	10665.2	10937.0	11250.5	11412.5	11334.1	11213.9	11151.2	11187.8
35°	10863.8	10910.8	11072.8	11433.4	11872.3	12029.1	12285.1	12117.9	11804.4	11882.8	11950.7
37.5°	11590.1	11726.0	12029.1	12457.6	12718.9	13006.3	13100.3	12875.6	12645.7	12551.6	12776.3
40°	12703.2	12661.4	12995.8	13424.3	13811.0	14098.4	13978.2	13753.5	13183.9	13189.1	13251.9
42.5°	13659.4	13680.3	13936.4	14448.5	14976.3	15153.9	14772.5	14223.8	13591.5	13523.6	13659.4
45°	14464.2	14547.8	14694.1	15378.6	15896.0	16089.3	15383.9	14735.9	13889.4	13607.2	13831.9
47.5°	14751.6	14887.4	15206.2	15833.2	16345.3	16502.1	15937.8	15007.6	14166.3	13706.5	13826.7
50°	14793.4	14746.3	15268.9	15843.7	16293.1	16632.7	16136.3	15206.2	14098.4	13858.0	13821.4
52.5°	13649.0	13878.9	14438.0	15227.1	16136.3	16679.8	16314.0	15315.9	14192.4	13920.7	13831.9
55°	11046.7	10775.0	11793.9	13121.2	14793.4	16303.5	16251.3	15373.4	14249.9	14025.2	13905.0
57.5°	6166.1	6244.5	6819.3	8261.5	10419.6	12927.9	14448.5	14767.2	14223.8	14093.2	14155.9
60°	2853.1	2879.2	3124.8	3798.9	5136.7	7331.4	9332.7	11365.4	12300.8	12488.9	12488.9
62.5°	2126.8	2116.3	2179.0	2299.2	2581.4	3370.4	4499.2	6113.8	7399.3	8298.1	8533.2
65°	1923.0	1917.8	1949.1	1990.9	2011.8	2121.6	2372.4	2868.8	3286.8	3527.2	3485.4
67.5°	1682.6	1677.4	1687.8	1714.0	1750.5	1808.0	1870.7	1975.2	2121.6	2111.1	2085.0
70°	1358.6	1358.6	1374.3	1395.2	1437.0	1504.9	1578.1	1651.3	1776.7	1802.8	1797.6
72.5°	1003.3	987.6	1019.0	1060.8	1102.6	1186.2	1264.6	1332.5	1421.3	1447.5	1437.0
75°	637.5	648.0	668.9	715.9	789.0	846.5	930.1	987.6	1045.1	1066.0	1071.2
77.5°	355.3	365.8	402.4	459.8	533.0	595.7	668.9	715.9	752.5	757.7	762.9
80°	214.2	219.5	256.0	308.3	371.0	438.9	496.4	543.5	574.8	559.1	553.9
82.5°	130.6	135.9	167.2	214.2	266.5	318.8	381.5	423.3	454.6	433.7	412.8
85°	67.9	73.2	99.3	130.6	172.4	198.6	198.6	177.7	172.4	162.0	156.8
87.5°	20.9	20.9	26.1	31.4	26.1	31.4	36.6	41.8	41.8	47.0	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)